Get started with SolidFire Active IQ

SolidFire Active IQ

NetApp
October 02, 2025

This PDF was generated from https://docs.netapp.com/us-en/solidfire-active-iq/task-active-iq-get-started-overview.html on October 02, 2025. Always check docs.netapp.com for the latest.

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Get started with SolidFire Active IQ

Get started with SolidFire Active IQ

The SolidFire Active IQ tool makes monitoring capacity, and performance, as well as being informed about cluster health, easy and accessible from anywhere. No matter how you use SolidFire Active IQ, there are several things to know before you start using it:

- Learn about SolidFire Active IQ: You should be aware of how SolidFire Active IQ works and what information it collects.
- Enable SolidFire Active IQ reporting: You must enable the SolidFire Active IQ reporting capability on the management node before the Active IQ server can connect to a cluster and receive cluster information.
- Use the SolidFire Active IQ UI: Learn about the new or enhanced features such as filtering, sorting, exporting data, and cluster selection.

Find more information

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Learn about SolidFire Active IQ

Before you start using SolidFire Active IQ, you should be aware of how SolidFire Active IQ works and what information it collects.

How SolidFire Active IQ works

Services such as collector and telemetry run on a management node. These services are configured with read-only access to a cluster and make API calls to a cluster on a scheduled basis to gather key performance, capacity, and health metrics. This information is uploaded to the SolidFire Active IQ cloud database by using HTTPs, where it is processed and made available to you and NetApp Support through the SolidFire Active IQ UI. You can view the most recent API payloads and collection intervals received for a cluster in the SolidFire Active IQ UI by logging in using your SSO credentials and selecting **API Collection** from the **Reporting** drop-down menu.

Access SolidFire Active IQ (login required)

Information collected by SolidFire Active IQ

SolidFire Active IQ collects information about volumes, clusters, nodes, performance, and configurations:

- Resource IDs such as volume, snapshots, and account node IDs
- Performance and capacity data for clusters and volumes
- Error and event history
- NetApp HCI and Element software versions
- Quality of Service (QoS) configurations
- Volume details such as size, creation date, and so on
- Volume access group and session configurations

- Node and cluster network configurations

SolidFire Active IQ does not collect the following customer sensitive information:

- Actual end-user data
- Passwords
- Challenge-Handshake Authentication Protocol (CHAP) secrets
- Cluster administrative user information

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Enable SolidFire Active IQ reporting

You must enable SolidFire Active IQ reporting capability on the management node, if you did not already do so during installation or upgrade, before the SolidFire Active IQ server can receive data payloads for a cluster from the management node. When the connection has been successfully set up, the cluster sends information to the SolidFire Active IQ server. You can then view the cluster in the SolidFire Active IQ UI, which displays cluster information.

Google Chrome and Firefox browsers are supported to run with SolidFire Active IQ.

Before you begin

- Some functions in Active IQ, for example, quality of service (QoS), require Element 11.3 or later to work correctly. To confirm that you have the capability to use all Active IQ functions, NetApp recommends the following:
  - Your storage cluster is running NetApp Element software 11.3 or later.
  - You have deployed a management node running version 11.3 or later.
- You have internet access. The Active IQ collector service cannot be used from dark sites that do not have external connectivity.

Steps

1. Get the base asset ID for the installation:
   a. Open the inventory service REST API UI on the management node:

      ```
      https://<ManagementNodeIP>/inventory/1/
      ```

   b. Select **Authorize** and complete the following:
      i. Enter the cluster user name and password.
      ii. Enter the client ID as `mnode-client`.
      iii. Select **Authorize** to begin a session.
      iv. Close the window.

c. From the REST API UI, select **GET /installations**.

d. Select **Try it out**.

e. Select **Execute**.

f. From the code 200 response body, copy the `id` for the installation.

```
{
  "installations": [
    {
      "_links": {
        "collection":
"https://10.111.211.111/inventory/1/installations",
        "self":
"https://10.111.217.111/inventory/1/installations/abcd01e2-ab00-1xxx-
91ee-12f111xxc7x0x"
      },
      "id": "abcd01e2-ab00-1xxx-91ee-12f111xxc7x0x",
```

Your installation has a base asset configuration that was created during installation or upgrade.

2. Activate telemetry:

a. Access the mnode service API UI on the management node by entering the management node IP address followed by `/mnode`:

```
https://<ManagementNodeIP>/mnode
```

b. Select **Authorize** or any lock icon and complete the following:

i. Enter the cluster user name and password.

ii. Enter the client ID as `mnode-client`.

iii. Select **Authorize** to begin a session.

iv. Close the window.

c. Configure the base asset:

i. Select **PUT /assets/{asset_id}**.

ii. Select **Try it out**.

iii. Enter the following in the JSON payload:

```
{
"telemetry_active": true
"config": {}
}
```

iv. Enter the base ID from the previous step in **asset_ID**.

v. Select **Execute**.

The Active IQ service is automatically restarted whenever assets are changed. Modifying assets results in a short delay before settings are applied.

3. Log in to SolidFire Active IQ and confirm that you can view your clusters.

Find more information

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Use the SolidFire Active IQ UI

Learn about the UI features and functionality in SolidFire Active IQ (login required):

- Use filters
- Sort lists
- View graphs and select date ranges
- Export list views and report data
- Select a cluster
- Icon reference
- Provide feedback

Use filters

You can sort and filter list information on pages in SolidFire Active IQ. When viewing lists (such as nodes, drives, volumes, and so on), you can use the filter functionality to focus the information and make it more easily fit on the screen.

Steps

1. When viewing list information, select **Filter**.
2. Choose a column name to filter by from the drop-down menu.
3. Select a constraint for the column.
4. Enter text to filter by.
5. Select **Add Filter**.

   The system runs the new filter on the information in the list and temporarily stores the new filter. The selected filter is shown at the bottom of the filter dialog box.

6. (Optional) You can add another filter by performing the following steps:
   a. Select another column heading and constraint.
   b. Select **Add Filter**.
7. (Optional) Select (**x**) to remove the filters and display the unfiltered list information.

Some tables include the option to exclude columns from view. For best results, select **Columns** to confirm all required columns are showing when setting filters.

Sort lists

You can sort list information by one or more columns on certain pages within the SolidFire Active IQ UI. This helps you arrange the information you need on the screen.

Steps

1. To sort on a single column, select the column heading until the information is sorted in the desired order.
2. To sort on multiple columns, perform the following steps:

    a. Select the column heading of the first column you want to sort until the information is sorted in the desired order.

    b. To add a column, hold the command key and select the column heading until the information is sorted in the desired order. You can add more than one column.

    This functionality is not available on all pages.

View graphs and select date ranges

The graphs and date ranges in SolidFire Active IQ are seamlessly integrated with each other. When selecting a date range, all graphs on that page adjust to the range selected. The default date range displayed for each graph is seven days.

You can select a date range from the calendar drop-down box or from a set of pre-defined ranges. Date ranges are calculated using the current browser time (at the time of selection) and the configured amount of time. Additionally, you can select a desired interval by brushing directly over the bar graph at the bottom. If available, switch between graphs by selecting the thumbnail layouts on the left. These layouts can also be hidden.

Position the mouse pointer over a graph line to see point-in-time details.

Expand the graph example

Export list views and report data

You can export an entire list view or graph data to a comma-separated values (CSV) format. For some lists, for example, cluster or nodes, you can select which columns are exported; by default, the displayed columns are selected. If there is a certain sort order or if a filter is used to limit the displayed entries, that sort order and filter are preserved in the exported file.

Steps

1. In a list view or graph, select the icon.

Select a cluster

In SolidFire Active IQ, you can view information about an individual cluster in your environment.

Steps

1. From the SolidFire Active IQ dashboard, select **Select a Cluster**.
2. The drop-down menu lists any clusters available to you.
3. Use the search field to locate the desired cluster or recently viewed clusters.
4. Select the name to select the cluster.

Icon reference

You might see the following icons when viewing the SolidFire Active IQ UI.

Icon	Description
	Refresh
	Filter
	Export
	Menu for account settings, documentation, feedback, support, and logout.
	Select one time to copy to clipboard.
	Toggle the button to wrap and unwrap text.
	More information. Select for other options.
	Select for more details.

Provide feedback

You can help improve the SolidFire Active IQ UI and address any UI issues by using the email feedback option that is accessible throughout the UI.

Steps

1. From any page in the UI, select the icon, and select **Feedback**.
2. Enter the relevant information in the message body of the email.
3. Attach any helpful screenshots.
4. Select **Send**.

Find more information

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